



FAG

61909

Deep groove ball bearing

Deep groove ball bearing 619, single row,
steel sheet metal cage

Technical information



Your current product variant

Sealing	Without	Not sealed
Cage	JN	Steel sheet metal
Tolerance class	PN	Normal (PN)
Dimensional / heat stabilization	SN	Rings dimensional stabilized up to 120°
Lubricant	Without	Bearing not greased
Radial internal clearance	CN (Group N)	Normal internal clearance
Bore type	Z	Cylindrical

Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	68 mm	Outside diameter
B	12 mm	Width
C _r	15,000 N	Basic dynamic load rating, radial
C _{0r}	10,900 N	Basic static load rating, radial
C _{ur}	650 N	Fatigue load limit, radial
n _G	14,400 1/min	Limiting speed
n _{gr}	8,800 1/min	Reference speed
≈m	0.136 kg	Weight



Mounting dimensions

$d_{a\min}$	48.2 mm	Minimum diameter shaft shoulder
$D_{a\max}$	64.8 mm	Maximum diameter of housing shoulder
$r_{a\max}$	0.6 mm	Maximum fillet radius

Dimensions

$r_{\min}$	0.6 mm	Minimum chamfer dimension
D_1	60.74 mm	Shoulder diameter outer ring
d_1	52.4 mm	Shoulder diameter inner ring

Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	120 °C	Operating temperature max.

Calculation factors

f_0	16	Calculation factor
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Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Grease Lubrication
	Oil Lubrication
	Not sealed